Figure 1A

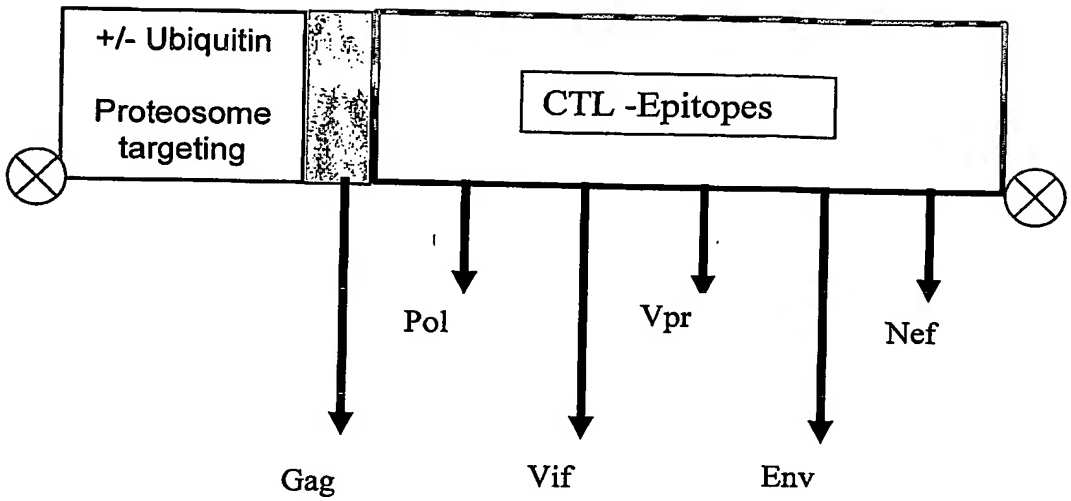
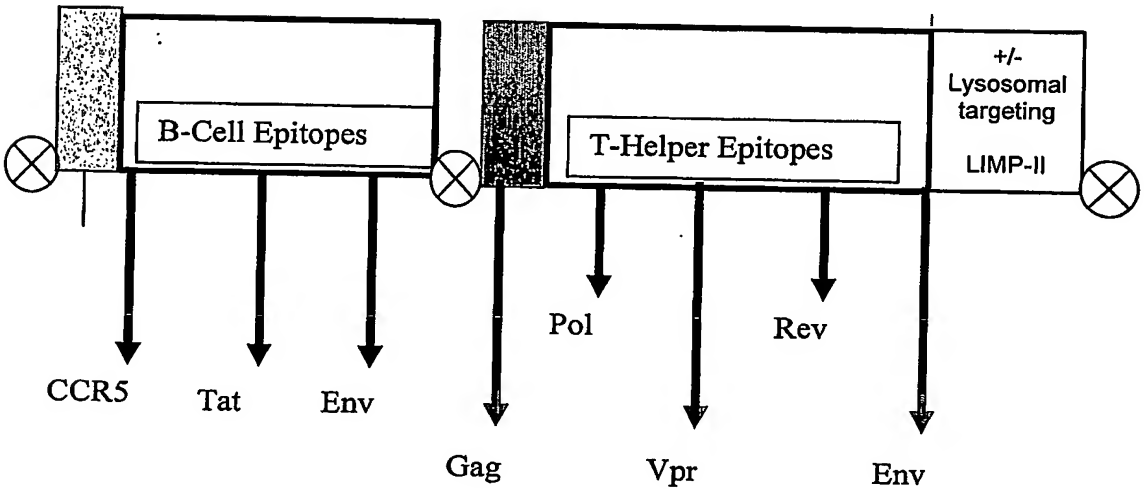


Figure 1B



⊗ = unique restriction site

Figure 1C

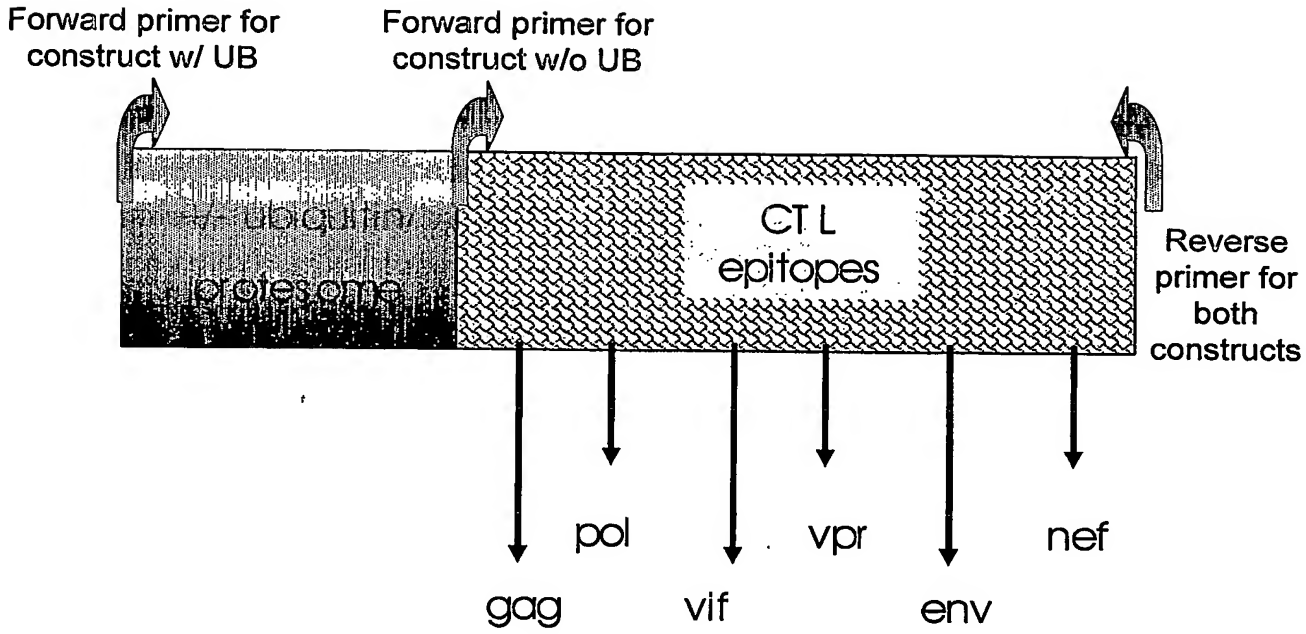


Figure 1D

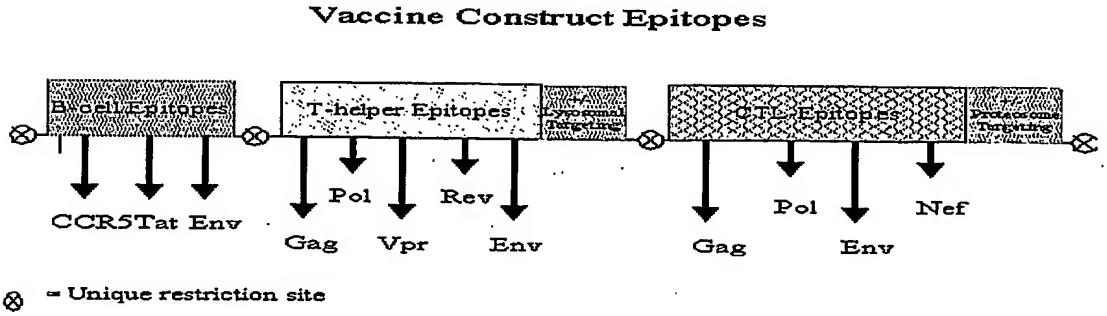


Figure 2A

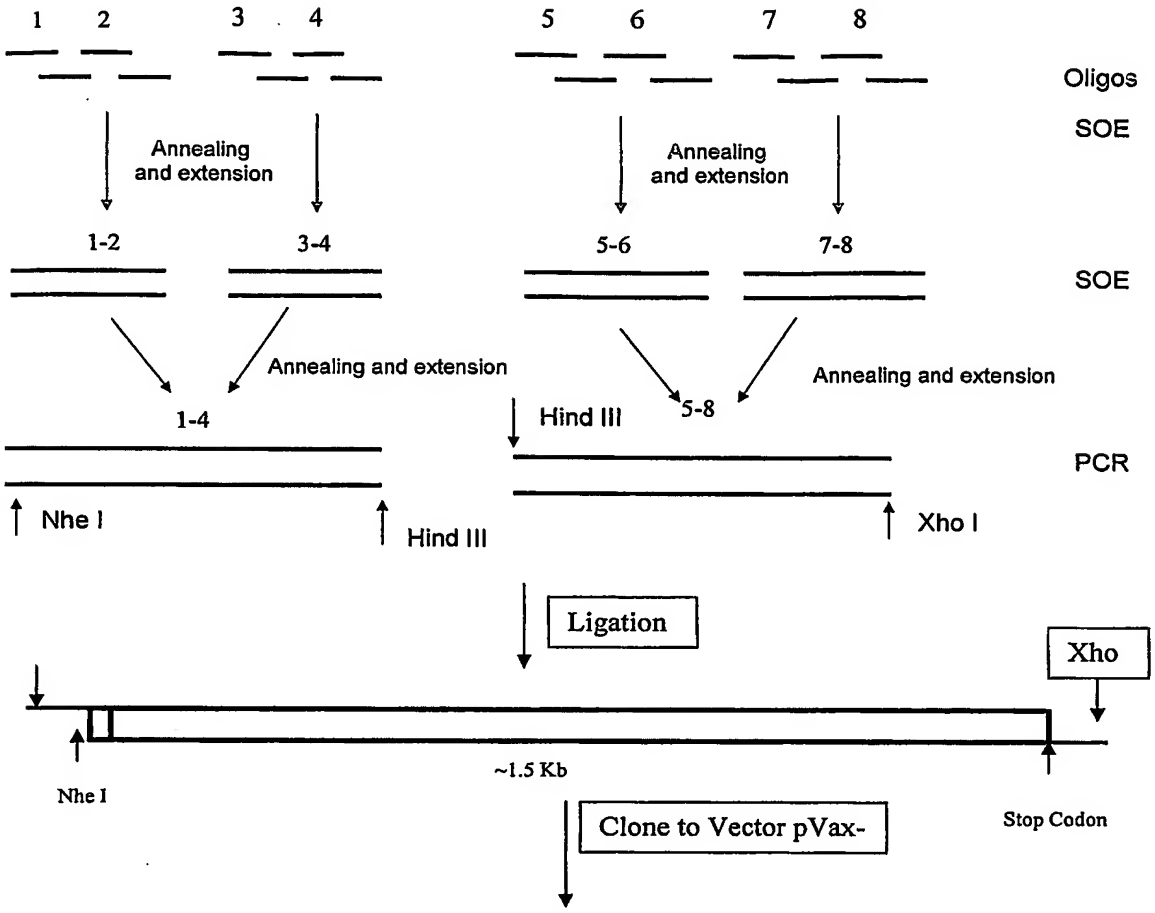


Figure 2B

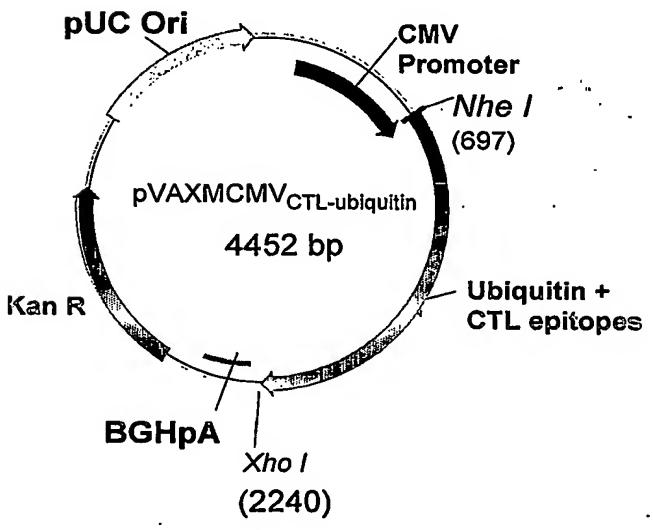


Figure 2C

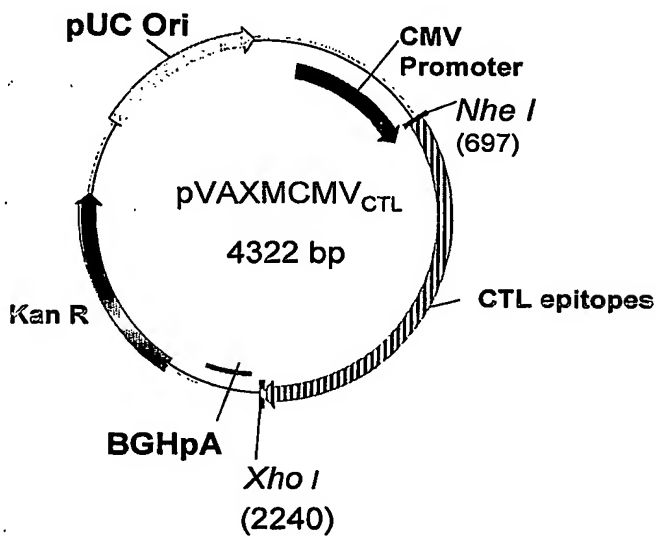


Figure 3

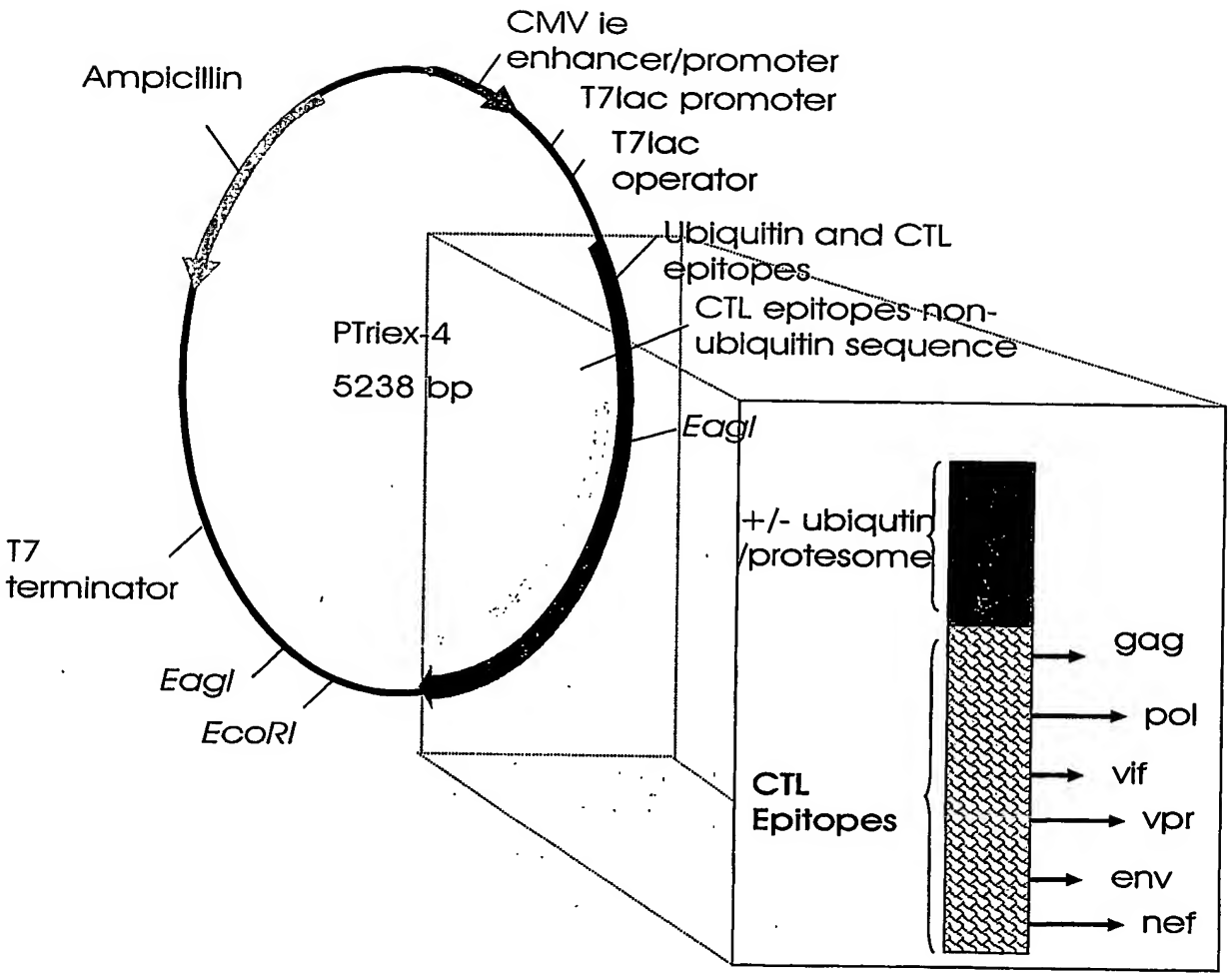

CMV ie
enhancer/promoter
T7lac promoter
T7lac
operator
Ampicillin
Ubiquitin and CTL
epitopes
CTL epitopes non-
ubiquitin sequence
PTriex-4
5238 bp
EagI
+/- ubiqutin
/protesome
T7
terminator
gag
pol
vif
vpr
env
nef
CTL
Epitopes
EagI
EcoRI

Figure 4

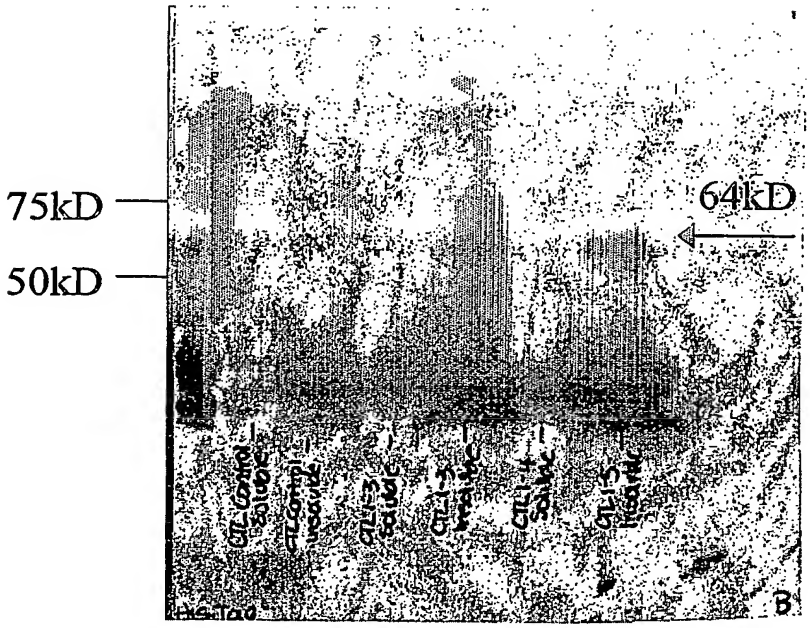


Figure 5

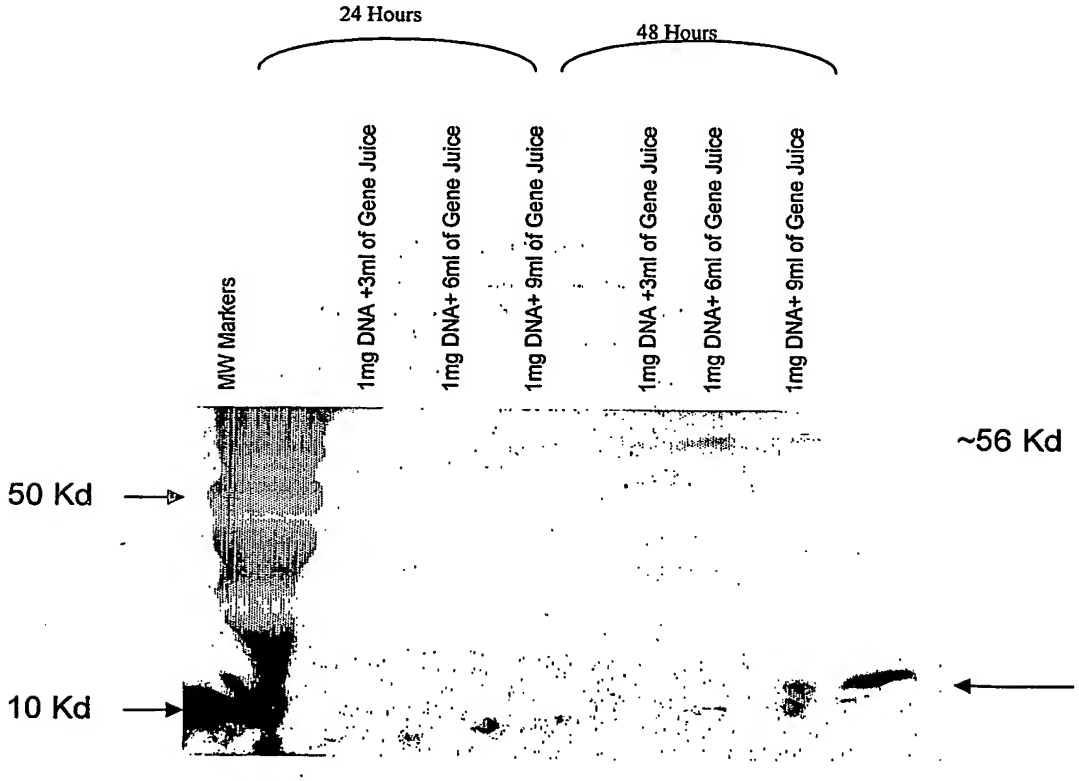
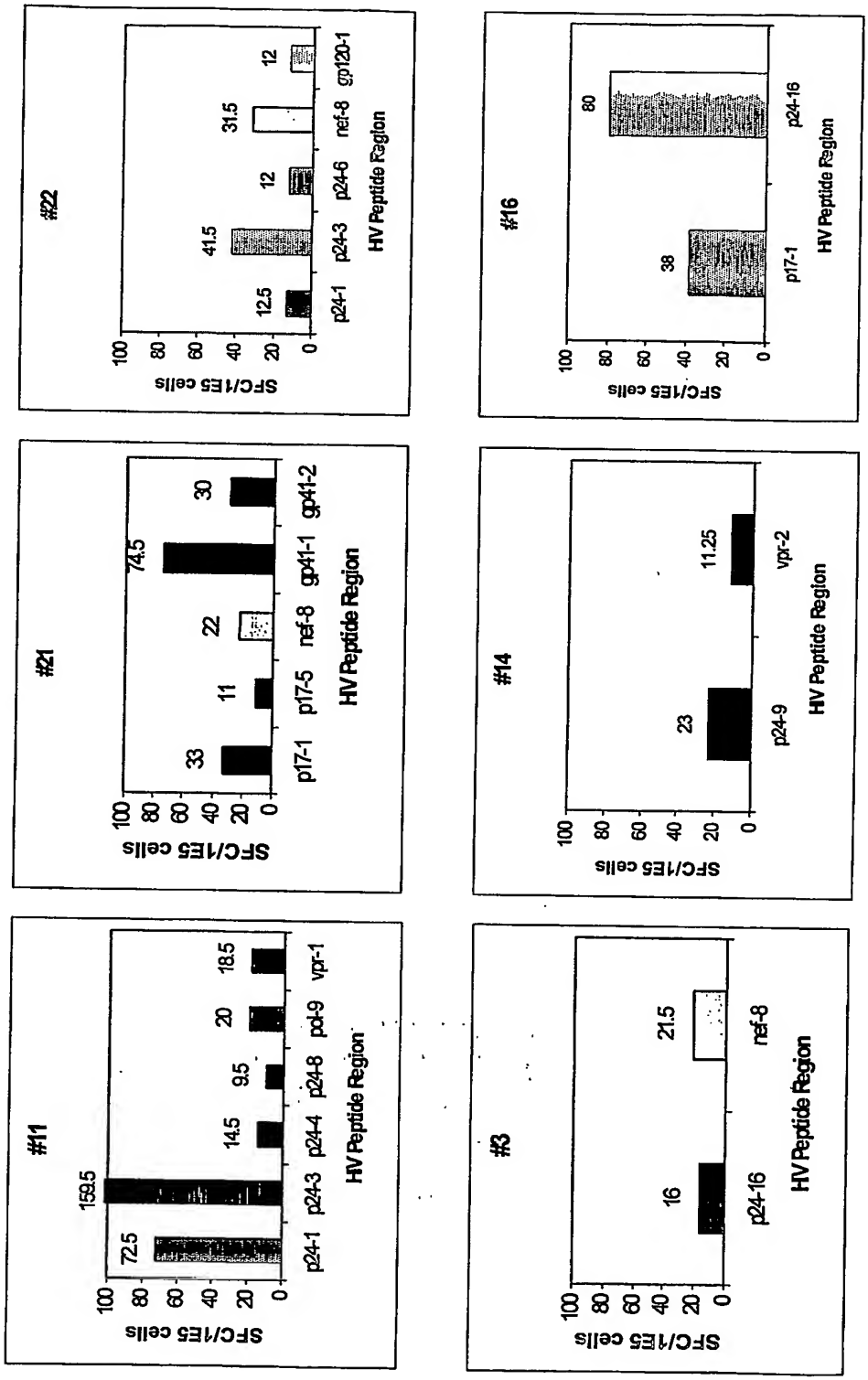


Figure 6


#11
SFC/1E5 cells
HV Peptide Region
p24-1
p24-3
p24-4
p24-8
pol-9
vpr-1
72.5
153.5
14.5
9.5
20
18.5
#21
SFC/1E5 cells
HV Peptide Region
p17-1
p17-5
nef-8
gp41-1
gp41-2
33
11
22
74.5
30
#22
SFC/1E5 cells
HV Peptide Region
p24-1
p24-3
p24-6
nef-8
gp120-1
12.5
41.5
12
31.5
12
#3
SFC/1E5 cells
HV Peptide Region
p24-16
nef-8
16
21.5
#14
SFC/1E5 cells
HV Peptide Region
p24-9
vpr-2
23
11.25
#16
SFC/1E5 cells
HV Peptide Region
p17-1
p24-16
38
80

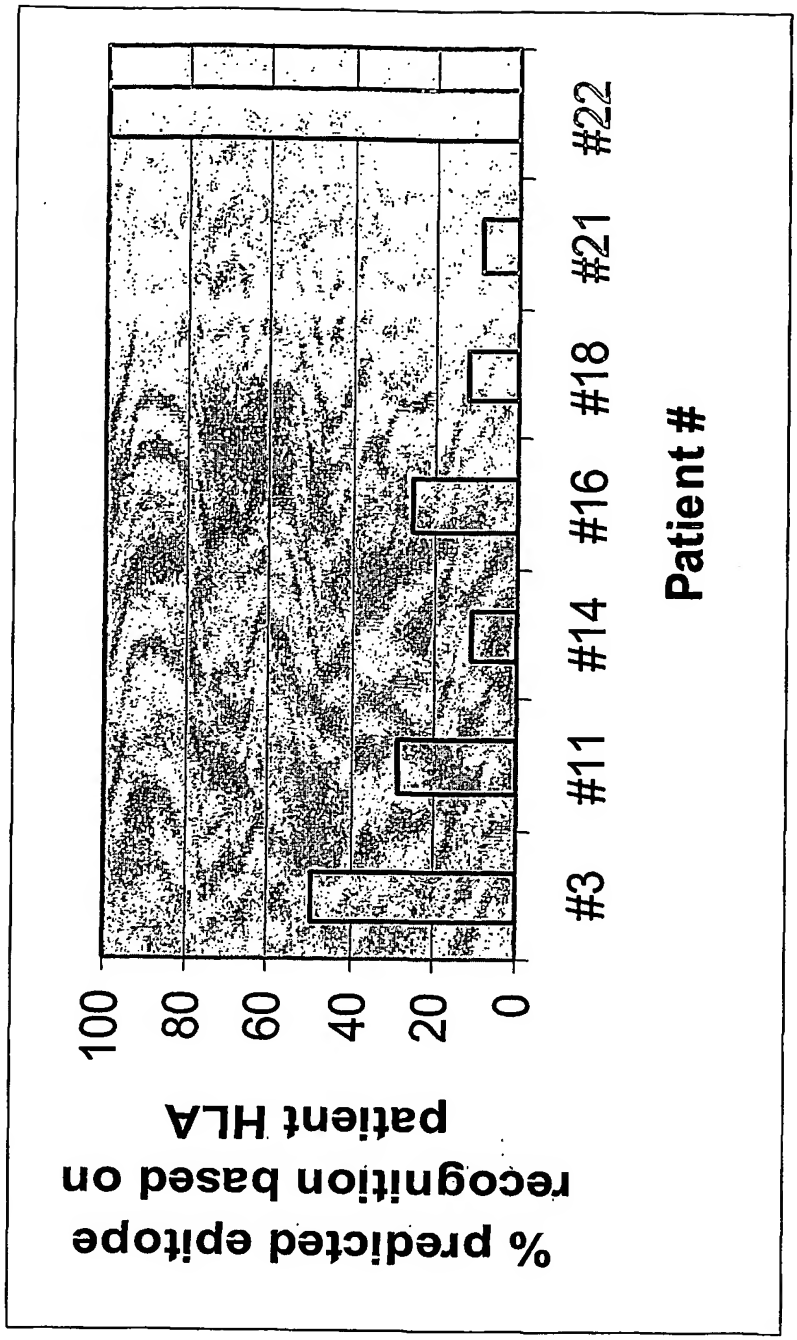

% predicted epitope recognition based on patient HLA
100
80
60
40
20
0
#3
#11
#14
#16
#18
#21
#22
Patient #

Figure 7